

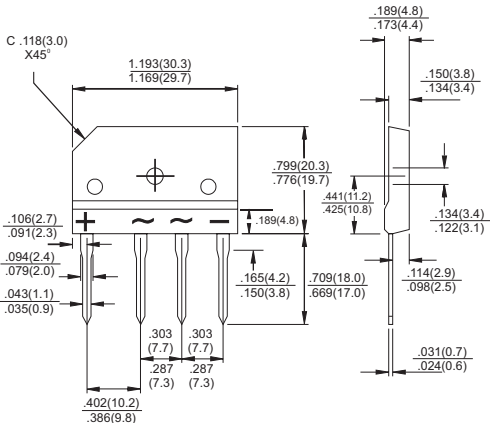


<div>TSC</div> <div></div>	<div>TS20P01G THRU TS20P07G</div> <div>Single Phase 20.0 AMPS. Glass Passivated Bridge Rectifiers</div>																																																																																																	
<div></div>	<div>Voltage Range</div> <div>50 to 1000 Volts</div> <div>Current</div> <div>20.0 Amperes</div>																																																																																																	
<div>Features</div> <div><div>✧</div>UL Recognized file # E-96005</div> <div><div>✧</div>Glass passivated junction</div> <div><div>✧</div>Ideal for printed circuit board</div> <div><div>✧</div>Reliable low cost construction</div> <div><div>✧</div>Plastic material has Underwriters Laboratory Flammability Classification 94V-0</div> <div><div>✧</div>Surge overload rating to 250 amperes peak</div> <div><div>✧</div>High case dielectric strength of 2000 V_{RMS}</div>	<div>TS-6P</div> <div></div> <div>Dimensions in inches and (millimeters)</div>																																																																																																	
<div>Mechanical Data</div> <div><div>✧</div>Case: Molded plastic</div> <div><div>✧</div>Terminals: Leads solderable per MIL-STD-750, Method 2026</div> <div><div>✧</div>Weight: 0.3 ounce, 8 grams</div> <div><div>✧</div>Mounting torque: 8.17 in. lbs. max.</div>																																																																																																		
<div>Maximum Ratings and Electrical Characteristics</div> <div>Rating at 25°C ambient temperature unless otherwise specified.</div> <div>Single phase, half wave, 60 Hz, resistive or inductive load.</div> <div>For capacitive load, derate current by 20%</div>																																																																																																		
<div>Type Number</div>	<div>Symbol</div>	<table><tr><td>TS20P 01G</td><td>TS20P 02G</td><td>TS20P 03G</td><td>TS20P 04G</td><td>TS20P 05G</td><td>TS20P 06G</td><td>TS20P 07G</td><td>Units</td></tr><tr><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr><tr><td>35</td><td>70</td><td>140</td><td>280</td><td>420</td><td>560</td><td>700</td><td>V</td></tr><tr><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr><tr><td colspan="7">20.0</td><td>A</td></tr><tr><td colspan="7">250</td><td>A</td></tr><tr><td colspan="7">1.1</td><td>V</td></tr><tr><td colspan="7">10.0</td><td>uA</td></tr><tr><td colspan="7">500</td><td>uA</td></tr><tr><td colspan="7">0.8</td><td>°C/W</td></tr><tr><td colspan="7">-55 to +150</td><td>°C</td></tr><tr><td colspan="7">-55 to + 150</td><td>°C</td></tr></table>	TS20P 01G	TS20P 02G	TS20P 03G	TS20P 04G	TS20P 05G	TS20P 06G	TS20P 07G	Units	50	100	200	400	600	800	1000	V	35	70	140	280	420	560	700	V	50	100	200	400	600	800	1000	V	20.0							A	250							A	1.1							V	10.0							uA	500							uA	0.8							°C/W	-55 to +150							°C	-55 to + 150							°C
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<div>Maximum DC Blocking Voltage</div>	<div>V_{DC}</div>																																																																																																	
<div>Maximum Average Forward Rectified Current See Fig. 1</div>	<div>I_(AV)</div>																																																																																																	
<div>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)</div>	<div>I_{FSM}</div>																																																																																																	
<div>Maximum Instantaneous Forward Voltage @ 20.0A</div>	<div>V_F</div>																																																																																																	
<div>Maximum DC Reverse Current @ T_A=25°C at Rated DC Blocking Voltage @ T_A=125°C</div>	<div>I_R</div>																																																																																																	
<div>Typical Thermal Resistance (Note)</div>	<div>Rθ_{JC}</div>																																																																																																	
<div>Operating Temperature Range</div>	<div>T_J</div>																																																																																																	
<div>Storage Temperature Range</div>	<div>T_{STG}</div>																																																																																																	

Note: Thermal Resistance from Junction to Case with Device Mounted on 5" x 7" x 0.25" Al-Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES (TS20P01G THRU TS20P07G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

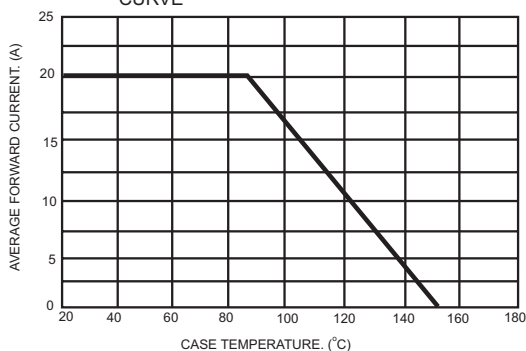


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

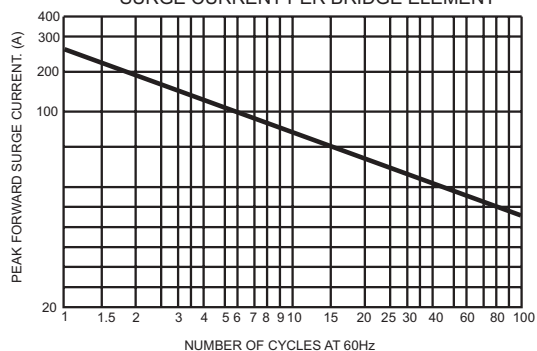


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

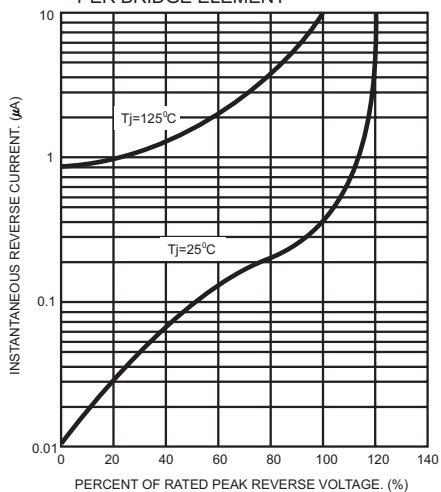


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

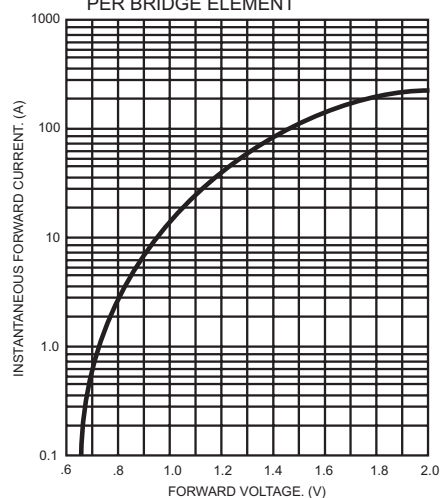


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE

